

# Plenary Session – Breakout Session Summaries

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DOE Evaluation of/Design for Beyond Design Basis Events

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# Vulnerabilities

## Strengths & General Consensus

- ▶ Understanding what a DBE is
- ▶ Understanding importance of EP for mitigation of BDBE
- ▶ Controls for BDBE should not be SC/SS, but could be defense in depth
- ▶ Should not establish quantitative criteria for effectiveness of BDBE controls
- ▶ Should not consider simultaneous independent events as BDBE

# Vulnerabilities

## Strengths & General Consensus (cont'd)

- ▶ Understanding importance of time dependencies of safety function equipment.

# Vulnerabilities

## Weaknesses

- ▶ Design basis event evaluation limited to facility footprint
- ▶ Lack of definition what constitutes a BDBE
- ▶ Need for further evaluation of BDBE
  - Understand residual risks and potential controls
  - Assess costs and benefits to mitigate
  - Assess EP capability needs
- ▶ Understanding of potential impact of external facility events

# Vulnerabilities

## ▶ Weaknesses (cont'd)

- ▶ Need for planning to compensate for potential unavailability of shared infrastructure following BDBE
- ▶ May not understand survivability of safety equipment in accident environment
- ▶ Need for onsite and regional emergency response equipment support facilities
- ▶ Need to verify maintenance of BDBE response capabilities
- ▶ Understanding effort needed to avoid BDBE consequence cliff

# Additional Actions/Path Forward



- ▶ Assure tighter integration of accident analysis and emergency response expectations
- ▶ Need to update 1189 to better address BDBE
- ▶ Clarify of 3009 for BDBE for co-located facilities
- ▶ Clarify expectations regarding BDBE w/other safe harbors